

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE WEST BOUNDARY (GUIDE MERIDIAN),

AND

A PORTION OF THE SUBDIVISIONAL LINES,

IN

TOWNSHIP 9 NORTH, RANGE 16 WEST,

OF THE SALT LAKE MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Scott A. Burkhardt
Cadastral Surveyor

Under Special Instructions dated and approved **November 20, 2013**, which provided for the surveys included under Group Number **1250**, and Assignment Instructions dated **November 20, 2013**.

Survey Commenced, **November 21, 2013**
Survey Completed, **July 9, 2014**

INDEX DIAGRAM

TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

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TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

The following field notes are those of the dependent resurvey of a portion of the west boundary (Guide Meridian), and a portion of the subdivisional lines, in T. 9 N., R. 16 W., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

Surveyed by		Retr. or Resurveyed by	
SOUTH BOUNDARY (Second Standard Parallel North)			
All	G.V.M. Boutelle	1872	
All		F. Dickert	1882
EAST BOUNDARY			
All	G.V.M. Boutelle	1872	
All		H. Fitzhugh	1884
All		F.R. Chappell & G.B. Hatch	1967
WEST BOUNDARY (Guide Meridian)			
Portion	F. Dickert	1882	
Portion	A.P. Hanson	1893	
NORTH BOUNDARY			
All	H. Fitzhugh	1883	
Portion		R.K. Baugh	2006
Portion		D.T. Gillins	2008-10
SUBDIVISION			
Portion	H. Fitzhugh	1884	
Portion	A.P. Hanson	1893	
Portion		R.K. Baugh	2006

TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1250, dated November 20, 2013.

The direction of each line is with reference to the true meridian, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards for the Positional Accuracy of Cadastral Surveys When Using Global Navigation Satellite Systems (GNSS)*, dated February 23, 2009. Trimble model R8 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): DL7734 P100 PARKVALLEYUT2007 CORS ARP, DL7710 P007 SALMONFALLNV2007 CORS ARP, and DG9771 P121 HNSLVALLY_UT2004 CORS ARP.

The geographic position of the corner of sections 4, 5, 32, and 33, Tps. 9 and 10 N., R. 16 W., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **41°32'18.798" N.**,
Longitude: **113°41'40.217" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

The geographic position of the corner of sections 1, 6, 7, and 12, T. 9 N., Rs. 16 and 17 W., as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: **41°31'24.070" N.**,
Longitude: **113°43'53.795" W.**, N.A.D. 83 (2011), EPOCH: 2010.00,
Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY (GUIDE MERIDIAN),
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the West Boundary (Guide Meridian),
T. 9 N., R. 16 W., Salt Lake Meridian, Utah

The Reestablishment of the Survey Executed by A.P. Hanson in 1893

Beginning at the 1/4 section corner of sections 7 and 12, on the west boundary of the township, determined at center of a mound of stone, 2 feet base, 1 foot high. There is no remaining evidence of the marked stone.

At the corner (center of mound of stone)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with a magnet at base, in a collar of stone, 3 feet base, to aluminum cap marked

T9N
R17W R16W
1/4
S12 | S7
2013

Set a steel fence post north of the corner.

Corner is located on fairly level ground, with sagebrush and juniper trees.

N. 0°21.9'E., between sections 7 and 12.

- 40.582** The corner of sections 1, 6, 7, and 12, monumented with a rebar, 5/8 inch diameter, firmly set, flush with a mound of stone, 3 feet base, 1 foot high, with aluminum cap marked T9N R17W 1/12 RLS 4953. The position of this unrecorded rebar is harmoniously related to existing corners, and is accepted as the best available evidence of the original corner position. There is no remaining evidence of the southeast bearing tree.

At the corner (rebar)

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 20 inches in the ground, with a magnet at base, in a mound of stone, 4 feet base, to aluminum cap marked

T9N
R17W R16W
S1 | S6
S12 | S7
2013

Bury rebar and aluminum cap in aluminum post.

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY (GUIDE MERIDIAN),
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Set a steel fence post north of the corner.

From the corner, a fence corner, with fences extending north, south, and west, bears N. 7°43'E., 3.348 chains distance.

Corner is located on a southwest-facing slope.

The Reestablishment of the Survey Executed By F. Dickert in 1882

N. 0°52.5'W., between sections 1 and 6.

- 40.468** The 1/4 section corner of sections 1 and 6, monumented with a limestone, 16x10x6 inches (record: 18x12x4 inches), firmly set, projecting 8 inches above the ground, marked 1/4 on west face. There is no remaining evidence of the mound of stone.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, to bedrock, with a magnet at base, in a collar of stone, 3 feet base, with aluminum cap marked

T9N
R17W R16W
1/4
S1 | S6
2013

Bury marked stone alongside the corner.

Corner is located on a southwest-facing hillside, at the corner of a rusty wire mesh fence, 4 feet high, with 2-strand rusty barbed wire fence, extending north and S. 08° W.

N. 2°32.4'W., beginning new measurement.

- 41.230** The corner of sections 1, 6, 31, and 36, Tps. 9 N and 10 N., Rs. 16 W and 17 W., monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 3 inches above an embedded mound of stone, 3 feet base, with aluminum cap marked as described in the official record of the 2008-10 resurvey of the south boundary of T. 10 N., R. 16 W., by D.T. Gillins.

From the corner, a fence corner, with fences extending north, south, and west.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 9 N., R. 16 W., Salt Lake Meridian, Utah

The Reestablishment of the Survey Executed by A.P. Hanson in 1893

From the 1/4 section corner of sections 4 and 9, monumented with a igneous rock, 18x12x7 inches (record: 18x10x7 inches), firmly set, projecting 5 inches above the ground, marked 1/4 on north face, in a collar of stone, 2 feet base. There is no remaining evidence of the mound of stone.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, with a magnet at base, in a collar of stone, 2 feet base, with aluminum cap marked

T9N	R16W
	S4
1/4	<hr/>
	S9
2013	

Bury marked stone in the collar of stone.

Set a steel fence post north of the corner.

Corner is located in rolling terrain, with sagebrush and juniper trees.

S. 89°21.3'W., between sections 4 and 9.

- 40.061** The corner of sections 4, 5, 8, and 9, monumented with a heavily-weathered granite stone, 16x11x4 inches, firmly set, projecting 10 inches above the ground, with no visible markings (record: 20x14x5 inches), marked with 5 notches on south edge and 4 notches on east edge; with a mound of stone 2 feet base, 6 inches high, west of corner.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, with a magnet at base, in a mound of stone, 2 feet base, to aluminum cap marked

T9N	R16W
S5	S4
S8	S9
2013	

Bury stone alongside the corner.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Set a steel fence post north of the corner.

Corner is located in an area of granite spires.

N. 3°12.6'W., between sections 4 and 5.

- 42.367 Point for the 1/4 section corner of sections 4 and 5, at proportionate distance. There is no remaining evidence of the marked stone or mound of stone. Point falls on a granite boulder.

Chisel a cross and 1/4 east of the cross.

from which

An aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with a magnet at base, for a reference monument, bears N. 25°52.8' W., 78.4 links distance, with aluminum cap marked RM T9N R16W 51.73 FT 1/4 S5 2014 and an arrow pointing toward the corner.

- 85.158 The corner of sections 4, 5, 32, and 33, on the north boundary of the township, monumented with an stainless steel post, 2 1/2 inches diameter, firmly set, projecting 6 inches above a collar of stone, 2 1/2 feet base, with brass cap marked as described in the official record of the 2006 resurvey of the north boundary of T. 9 N., R. 16 W., by R.K. Baugh.

With a steel fence post east of the corner.

From the 1/4 section corner of sections 7 and 8, monumented with a sandstone, 17x9x3 inches (record: 18x14x5 inches), firmly set, projecting 7 inches above the ground, marked 1/4 on west face, with embedded collar of stone, 2 feet base, west of corner.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with a magnet at base, with aluminum cap marked

T9N R16W
1/4
S7 | S8
2013

Bury marked stone alongside the corner.

Set a steel fence post north of the corner.

Corner is located on a gentle north slope, in juniper trees.

N. 0°48.6'W., between sections 7 and 8.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

- 41.452** The corner of sections 5, 6, 7, and 8, monumented with a sandstone, 17x10x6 inches (record: 20x11x5 inches), firmly set, projecting 9 inches above the ground, marked with 5 notches on the south and east edges, with an embedded mound of stone, 3 feet base, southwest of corner.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, with a magnet at base, in a mound of stone, 2 1/2 feet base, to aluminum cap marked

T9N R16W

S6	S5
S7	S8

2013

Bury marked stone in the mound of stone.

Set a steel fence post west of the corner.

Corner is located in previously burned area, in gently rolling hills.

From the corner of sections 4, 5, 8, and 9.

S. 86°45.1'W., between sections 5 and 8.

- 38.286** The 1/4 section corner of sections 5 and 8, monumented with a granite stone, 12x12x4 inches, firmly set, projecting 7 inches above an embedded mound of stone, 2 1/2 feet base, with no visible markings (record: 18x12x8 inches, marked 1/4 on north face). There is no remaining evidence of the mound of stone.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 23 inches in the ground, to bedrock, with a magnet at base, in a mound of stone, 2 1/2 feet base, to aluminum cap marked

T9N R16W

1/4	S5
	S8

2013

Bury unmarked stone alongside the corner.

Set a steel fencepost east of the corner.

S. 89°43.7'W., beginning new measurement.

- 40.323** The corner of sections 5, 6, 7, and 8.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

N. 89°19.8'W., between sections 6 and 7.

- 39.706** The 1/4 section corner of sections 6 and 7, monumented with a fragmented limestone stone, 15x4x3 inches (record: 18x10x7 inches), firmly set, marked 1/4 on north face, and projecting 5 inches above an embedded mound of stone, 2 feet base.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, with a magnet at base, in a collar of stone, 2 feet base, to aluminum cap marked

T9N	R16W
	S6
1/4	<u> </u>
	S7
2013	

Bury marked stone alongside the corner.

Set a steel fence post north of the corner.

Corner is located in sagebrush and pinon and juniper trees.

N. 85°48.7'W., beginning new measurement.

- 40.624** The corner of sections 1, 6, 7, and 12, on the west boundary of the township, hereinbefore described.

From the corner of sections 5, 6, 7, and 8.

N. 0°25.9'E., between sections 5 and 6.

- 40.604** The 1/4 section corner of sections 5 and 6, monumented with a granite stone, 19x10x5 inches, firmly set, projecting 10 inches above the ground, no visible markings (record: 22x10x7 inches, marked 1/4 on west face), with mound of stone, 2 1/2 ft. base, west.

At the corner

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 27 inches in the ground, with a magnet at base, in a collar of stone, 2 1/2 feet base, with aluminum cap marked

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
TOWNSHIP 9 NORTH, RANGE 16 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

T9N R16W

1/4

S6 | S5

2013

Bury unmarked stone in the collar of stone.

Set a steel fence post northeast of the corner.

N. 8°27.6'W., beginning new measurement.

- 47.129** The corner of sections 5, 6, 31, and 32, Tps. 9 and 10 N., R. 16 W., monumented with a stainless steel post, 2 1/2 inches diameter, firmly set, projecting 3 inches above the ground, with brass cap marked as described in the official record of the 2008-10 resurvey of the south boundary of T. 10 N., R. 16 W., by D.T. Gillins; with a mound of stone, 2 feet base, 1 foot high, west of corner.

Set a steel fence post south of the corner.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Name	Capacity
Phil Freiberg	Survey Technician
Keith Batty	Cadastral Surveyor

CERTIFICATE OF SURVEY

I, **Scott A. Burkhardt, Cadastral Surveyor**, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the **November 20, 2013**, I have **dependently resurveyed a portion of the west boundary and a portion of the subdivisional lines, in Township 9 North, Range 16 West, of the Salt Lake Meridian, in the State of Utah**, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

5/12/15

Date

Scott A. Burkhardt

Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Salt Lake City, Utah

The foregoing field notes of the **dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines, in Township 9 North, Range 16 West, Salt Lake Meridian; Utah**, executed by **Scott A. Burkhardt, Cadastral Surveyor**, having been critically examined and found correct, are hereby approved.

May 20, 2015

Date

Daniel W. Webb

Chief Cadastral Surveyor for Utah